

Shaft drive unit, in particular an electrical drive unit for driving a wheel shaft with a transverse shaft structure

Abstract

The invention relates to a shaft drive unit (1), in particular an electrical drive unit for driving a wheel shaft for use in vehicles; having an electrical machine comprising a rotor and a stator; having a transmission unit, comprising at least one input which can be connected in a rotationally fixed manner to the rotor of the electrical machine, and at least one output which can be connected in a rotationally fixed manner to the wheel shaft. The electrical machine, the input and the output of the transmission unit and the wheel shaft are arranged coaxially with respect to one another. The electrical machine has at least one associated converter unit (11) and one associated braking resistor unit. The invention is distinguished in that the converter unit (11) forms a physical unit with the electrical machine.

The braking resistor unit is arranged in the immediate physical vicinity of the electrical machine and around the circumference of the input or output drive shaft of the electrical machine or of the wheel shaft.

Figure 1